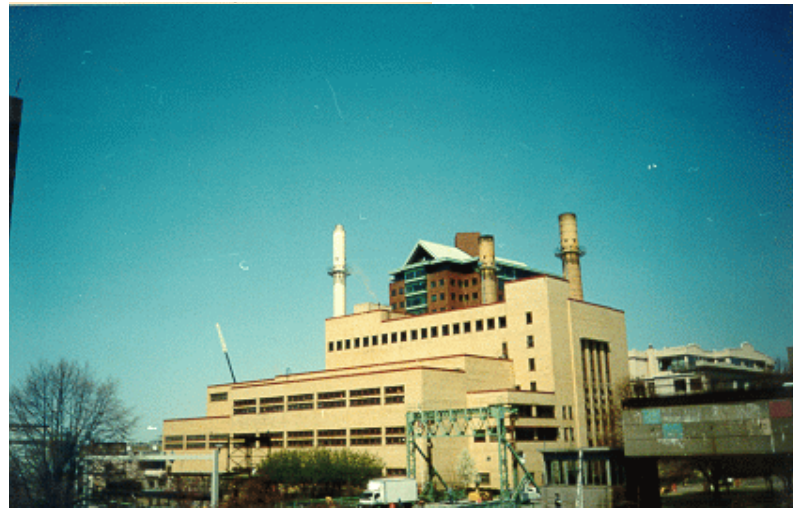
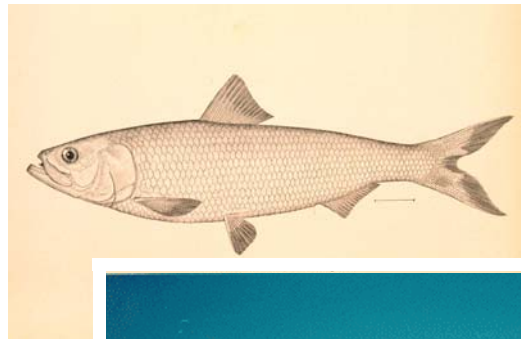


**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**MIRANT KENDALL STATION NPDES PERMIT # MA0004898**  
**RESPONSE TO COMMENTS**



**EPA Region 1 New England**

**September 2006**

**Responses to Comments**  
**Public Review of Mirant Kendall Station**  
**NPDES Permit No. MA0004898**

**Contents**

<b>Introduction</b>	<b><i>i</i></b>
<b>A. Responses to Comments Concerning the Permit Process</b>	<b>A1</b>
<b>B. Responses to Comments Concerning Mirant Kendall’s Operations</b>	<b>B1</b>
<b>C. Responses to Comments Concerning In-Stream Thermal Limits</b>	<b>C1</b>
<b>D. Responses to Comments Concerning the Proposed Zone of Passage and Habitat</b>	<b>D1</b>
<b>E. Responses to Comments Concerning the Proposed New Outfall and Diffuser</b>	<b>E1</b>
<b>F. Responses to Comments Concerning CWA § 316(a) Variance-Based Thermal Discharge Limits</b>	<b>F1</b>
<b>G. Responses to Comments Concerning Permanent Hydrological Modifications</b>	<b>G1</b>
<b>H. Responses to Comments Concerning CWA § 316(b)-Based Cooling Water Intake Limits and Barrier Net Installation</b>	<b>H1</b>
<b>I. Responses to Comments Concerning Monitoring and Reporting Requirements</b>	<b>I1</b>
<b>J. Responses to Comments Concerning Other Permit Limits</b>	<b>J1</b>
<b>K. Responses to Comments Concerning Projected Effects of the Permit on Mirant Kendall’s Operations.</b>	<b>K1</b>
<b>L. Responses to General Comments.</b>	<b>L1</b>
<b>M. Responses to Comments Concerning the Future of Mirant Kendall Station</b>	<b>M1</b>

## List of Attached Figures and Tables

- B1-1 Mirant Kendall Station existing and future cooling water discharge parameters
- B1-2 Mirant Kendall Station average daily heatload values from June through September for the years 1998 through 2005.
- B1-3 Mirant Kendall Station monthly average heatload for the summer months (June through September) from 1998 through 2005.
- B1-4 Number of days each summer (June through September) that the average daily heatload from Kendall Station was recorded within specific heatload ranges, 1998 through 2005.
- C3-1 2004 Pushnet, Alewives vs. Distance: mean number of alewives captured per pushnet event at each station (July-September, night only) vs. station distance to Kendall discharge
- C3-2 2005 Pushnet, Alewives vs. Distance: number of juvenile alewives caught per pushnet event (July - Sept., nighttime only) at each station vs. station distance from the Kendall discharge
- C3-3 2005 Pushnet, Alewives vs. Distance: number of juvenile alewives caught per pushnet event (July-Sept., nighttime only) at each station vs. station distance from the Kendall discharge. MIT station (at 0.8 miles) information removed
- C3-4 2004 Pushnet, Bluebacks vs. Distance: median number of juvenile bluebacks collected at each pushnet station (nighttime data, August - September) vs. distance (miles) from each station to the Kendall discharge
- C3-5 2005 Pushnet, Bluebacks vs. Distance: median number of juvenile bluebacks per station (July-Sept., nighttime only) vs. station distance from the Kendall discharge
- C3-6 2004 Pushnet, Temperature and Distance: mean surface water temperature at each station (nighttime data, August - September) at time of pushnet sampling vs. distance from each station to the Kendall discharge
- C3-7 2005 Pushnet, Temperature vs. Distance: mean surface water temperature at each pushnet station at time of sampling (July-Sept, night only) vs. station distance from the Kendall discharge
- C3-8 2004 Pushnet, Alewives: number of juvenile alewives caught per pushnet sampling event at different water temperatures from July-September (nighttime only), and sampling events per temperature category

- C3-9 Pushnet, Alewives: number of juvenile alewives caught per pushnet sampling event at different water temperatures from July - September (nighttime only) and sampling events per temperature category
- C3-10 2003-2005 Seine, Alewives vs. Station: number of juvenile alewives caught per 1000 sq. ft. of area seined (nighttime only) at Hyatt and Lagoon stations, 1.6 and 0.6 miles upstream of the Kendall discharge, respectively, vs. year
- C3-11 2003 Shoreline Seine, Alewives: number of juvenile alewives caught per 1000 sq. ft. of area sampled from July-September.
- C3-12 2004 Shoreline Seine, Alewives: number of juvenile alewives caught per 1000 sq. ft. of area sampled July – September.
- C3-13 2005 Shoreline Seine, Alewives: number of juvenile alewives caught per 1000 sq. ft. of area sampled from July-September.
- C3-14 2004 Pushnet, Alewives vs. Temperature: mean number of juvenile alewives caught per sampling event at each station (July-September, nighttime only) vs. the mean surface water temperature at each station at time of pushnet sampling
- C3-15 2005 Pushnet, Alewives vs. Temperature: mean number of juvenile alewives caught per sampling event at each station (July-Sept., nighttime only) vs. mean surface water temperature at each station at time of pushnet sampling
- C3-16 2005 Alewives vs. Temperature: number of juvenile alewives caught per sampling event at each station (July-September, nighttime only) vs. mean surface water temperature at each station over sampling period; MIT data removed
- C3-17 2004 Pushnet, Bluebacks vs. Temperature: median number of juvenile bluebacks caught at each station during sampling events (nighttime, August-September) vs. mean surface water temperature at each station at time of sampling
- C3-18 2005 Pushnet, Bluebacks vs. Temperature: median number of juvenile bluebacks caught during sampling events (nighttime, July-Sept.) at each station vs. mean surface water temperature (F) at each station at time of pushnet sampling
- E19-2 Relative Percent Differences in Algal Counts Between the Upstream and Downstream Portions of the Lower Basin
- H14-1 Number of fish impinged and collected, all species combined, at the CWIS of Kendall Station, presented by month and year from 1999 through 2005.